

Title (en)  
METHOD FOR TARGETED MASS SPECTRAL PROTEOMIC ANALYSES

Title (de)  
VERFAHREN FÜR GEZIELTE PROTEOMISCHE MASSENSPEKTRALANALYSEN

Title (fr)  
PROCEDE D'ANALYSES PROTEOMIQUES SPECTRALES DE MASSE CIBLEES

Publication  
**EP 4343322 A2 20240327 (EN)**

Application  
**EP 24157440 A 20210421**

Priority  
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• EP 21169577 A 20210421

Abstract (en)  
A method for determining a quantity of an analyte in a liquid sample, comprises: adding a known quantity of an internal standard comprising an isotopically labeled version of the analyte to the sample; (b) providing a continuous stream of the sample having the internal standard to an inlet of a Liquid Chromatography Mass Spectrometry (LCMS) system; and repeatedly performing the steps of: performing a data-independent analysis of the precursor ion species using a mass analyzer, whereby mass spectra of a plurality of fragment-ion species are acquired; calculating one or more degree-of-matching scores that relate to either a number of ions of the internal standard that overlap between results of the data-independent analysis and tabulated mass spectral data of the internal standard; and performing quantitative tandem mass spectrometric analyses of the internal standard and the analyte if each of the degree-of-matching scores meets a respective degree-of-matching condition.

IPC 8 full level  
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CPC (source: EP US)  
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Citation (applicant)  
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